QC-ABSTRACT

Name of Work:- Providing SS name boards of cross roads and main roads in ward no.05 Yelahanka New town sub division, BBMP, Bangalore

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	Material	-	1	1	Cement
					Sand, Aggregates
2	M20	–	2	2	Concrete Cube Compressive Strength

Cubes	0-5 m^3	1set
	6-15 m^3	2set
	16-30 m^3	3set
	31-50 m^3	4 set
	Add 1set for every 50 Cum	

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/05/2023-24

Date: 22.06.2023

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yelahanka Satellite town sub-division, BBMP, Bangalore

Agency : **Sri. Akshay Kumar H B,** Contractor, Bangalore

Name of Work Providing SS name boards of cross roads and main roads in ward no.05 Yelahanka New town sub division, BBMP, Bangalore

Sample ID: : Cement (Birla Super 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: :May - 2023

Date of Testing 19.06.2023 to 22.06.2023

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	365 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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Job No.: CQCE/BBMP/AKHB/05/2023-24

Date 22.06.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite town sub-division, BBMP, Bangalore

Agency : **Sri. Akshay Kumar H B,** Contractor, Bangalore

Name of Work Providing SS name boards of cross roads and main roads in ward no.05 Yelahanka New town sub division, BBMP, Bangalore

Date of Testing 22.06.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	172	1.15	1.15	98.85	95-100
20	8236	54.91	56.05	43.95	30-70
10	3385	22.57	78.62	21.38	10-35
4.75	2895	19.30	97.92	2.08	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/05/2023-24

Date 22.06.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite town sub-division, BBMP, Bangalore

Agency : **Sri. Akshay Kumar H B,** Contractor, Bangalore

Name of Work Providing SS name boards of cross roads and main roads in ward no.05 Yelahanka New town sub division, BBMP, Bangalore

Date of Testing 22.06.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	217	4.3	4.3	95.7	95-100
10	2898	58.0	62.3	37.7	25-55
4.75	1563	31.3	93.6	6.4	0-10

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Date: 06.07.2023

Job No.: CQCE/BBMP/AKHB/05/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite town sub-division, BBMP, Bangalore

Agency : **Sri. Akshay Kumar H B,** Contractor, Bangalore

Name of the work Providing SS name boards of cross roads and main roads in ward no.05 Yelahanka New town sub division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.06.2023	06.07.2023	8.205	385.6	17.14
2	29.06.2023	06.07.2023	8.145	397.5	17.67
3	29.06.2023	06.07.2023	8.213	356.8	15.86

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 07.07.2023

Job No.: CQCE/BBMP/AKHB/05/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite town sub-division, BBMP, Bangalore

Agency : **Sri. Akshay Kumar H B,** Contractor, Bangalore

Name of the work : Providing SS name boards of cross roads and main roads in ward no.05 Yelahanka New town sub division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2023	07.07.2023	8.042	386.9	17.20
2	30.06.2023	07.07.2023	8.169	379.4	16.86
3	30.06.2023	07.07.2023	8.202	382.6	17.00

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 27.07.2023

Job No.: CQCE/BBMP/AKHB/05/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite town sub-division, BBMP, Bangalore

Agency : **Sri. Akshay Kumar H B,** Contractor, Bangalore

Name of the work : Providing SS name boards of cross roads and main roads in ward no.05 Yelahanka New town sub division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.06.2023	27.07.2023	8.214	536.1	23.83
2	29.06.2023	27.07.2023	8.166	542.7	24.12
3	29.06.2023	27.07.2023	8.205	528.9	23.51

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Date: 28.07.2023

Job No.: CQCE/BBMP/AKHB/05/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite town sub-division, BBMP, Bangalore

Agency : **Sri. Akshay Kumar H B,** Contractor, Bangalore

Name of the work : Providing SS name boards of cross roads and main roads in ward no.05 Yelahanka New town sub division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2023	28.07.2023	8.214	531.8	23.64
2	30.06.2023	28.07.2023	8.166	546.1	24.27
3	30.06.2023	28.07.2023	8.241	531.4	23.62

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Job No.: CQCE/BBMP/AKHB/05/2023-24 Date 22.06.2023

TEST REPORT OF PHYSICAL PROPERTIES OF STAINLESS STEEL

Client : **Assistant Executive Engineer,** Yelahanka Satellite town sub-division, BBMP, Bangalore

Agency : **Sri. Akshay Kumar H B,** Contractor, Bangalore

Name of Work Providing SS name boards of cross roads and main roads in ward no.05 Yelahanka New town sub division, BBMP, Bangalore

Reference to BIS codes: IS 6911:1992

IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test: 22.06.2023

Tensile Test:

Nominal size (dia in mm)	50mm	Limits as Per IS 6911 :1992
0.20 % proof stress/ yield stress (N/mm^2)	256	200 Min
Tensile strength (N/mm^2)	441	400 Min
Elongation, percent in Min in 50mm	43	40 Min

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Client : **Assistant Executive Engineer,** Yelahanka Satellite town sub-division, BBMP, Bangalore

Agency : **Sri. Akshay Kumar H B,** Contractor, Bangalore

Name of Work Providing SS name boards of cross roads and main roads in ward no.05 Yelahanka New town sub division, BBMP, Bangalore

Reference to BIS codes: IS 6911:1992

IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test: 22.06.2023

Tensile Test:

Nominal size (dia in mm)	15*20*1.2mm	Limits as Per IS 6911 :1992
0.20 % proof stress/ yield stress (N/mm^2)	241	200 Min
Tensile strength (N/mm^2)	438	400 Min
Elongation, percent in Min in 50mm	44	40 Min

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Agency : **Sri. Akshay Kumar H B,** Contractor, Bangalore

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Reference to BIS codes: IS 6911:1992

IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test: 22.06.2023

Tensile Test:

Nominal size (dia in mm)	38mm	Limits as Per IS 6911 :1992
0.20 % proof stress/ yield stress (N/mm^2)	238	200 Min
Tensile strength (N/mm^2)	419	400 Min
Elongation, percent in Min in 50mm	45	40 Min

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